

26. A system for generating a high-luminance viewing window on a computer display device comprising:

a host computer system for running an application program;

a processor device for automatically generating a window control signal in response to said application program;

a window generator device, for receiving said window control signal, and for generating a window information signal; and

a display control device coupled to said computer display device for processing said window information signal and for providing a processed window information signal to said computer display device to generate said high-luminance viewing window thereon.

27. The system of Claim 26 wherein said computer display device includes a cathode ray tube (CRT) device.

28. The system of Claim 27 wherein said computer display device includes a high-voltage power supply (HVPS) for providing a high-voltage signal to an anode of said CRT device.

29. The system of Claim 28 wherein said computer display device includes a limiter device coupled to said window generator device and to said HVPS, said limiter device for limiting beam current supplied to said CRT device by said HVPS.

30. The system of Claim 29 wherein said limiter device is an automatic beam limiter (ABL) for sampling the current of said high-voltage signal to automatically determine when to limit said signal.

31. The system of Claim 30 wherein said ABL provides an analog window signal to said video amplifier.

32. The system of Claim 31 wherein said ABL provides said analog window signal to control a gain control of said video amplifier.

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33. The system of Claim 29 wherein said display control device is a video amplifier and said window control signal includes a video signal for receipt by said video amplifier.

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34. The system of Claim 26 wherein information within said high-luminance viewing window is different from information outside said window.

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35. The system of Claim 26 wherein said window control signal generated by said processor device includes a horizontal synchronization (H Sync) signal and vertical synchronization (V Sync) signal.

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36. A method for generating a high-luminance viewing window on a computer display device, comprising:

4 running an application program on a host computer;

6 generating a window control signal in response to said application program;

8 generating a window information signal in response to said window control signal;

10 using a display control device for receiving and processing said window information signal; and

providing said processed window information signal to said computer display device for generating said high-luminance viewing window thereon.

37. The method of Claim 36 comprising:

2 providing a cathode ray tube (CRT) device and a video amplifier within said computer display device; and

4 generating a video data signal, for receipt by said video amplifier, in response to said application program, said video data signal included within said window control signal.

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38. The method of Claim 37 comprising:

2 providing a high-voltage power supply (HVPS) and an automatic beam limiter (ABL) device within said computer display device;

4 generating a high-voltage signal using said HVPS and providing said
high-voltage signal to the anode of said CRT device; and
6 sampling the current of said high-voltage signal using said ABL device,
wherein said ABL determines when to limit beam current supplied to said
8 CRT.

2 39. The method of Claim 38 comprising using said ABL device for providing an
analog video control signal to said video amplifier.

2 40. The method of Claim 39 wherein providing said analog video control signal to
said video amplifier determines the gain of said video amplifier.

2 41. The method of Claim 36 wherein generating said high-luminance viewing
window includes displaying information within said viewing window, derived from said
video data signal, distinct from information displayed outside said viewing window.

2 42. The method of Claim 36 wherein generating said window control signal
includes generating a horizontal synchronization signal (H Sync) and a vertical
synchronization signal (V Sync).

2 43. A computer-readable medium containing instructions for performing steps
comprising:

4 running an application program on a host computer;
generating a window control signal in response to said application program,
said window control signal including a video data signal;
6 generating a window information signal in response to said window control
signal;
8 processing said window information signal using a display control device; and
providing said processed window information signal to a computer display
10 device, said display device producing a high-luminance viewing window.

44. The computer-readable medium of Claim 43 wherein producing a
2 high-luminance viewing window includes providing information, derived from said
video data signal, for display within said window wherein said windowed information
4 is distinct from information displayed outside said viewing window

45. A system for generating high-luminance windows on a display device,
2 comprising:
4 means for running an application program, said application program providing
a video data signal;
6 means for generating a window control signal in response to said application
program;
8 means for generating a window information signal in response to said window
control signal;
10 means for processing said window information signal using a display control
device; and
12 means for applying said window information signal to said control device to
generate said high-luminance windows.--

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